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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/620,484	07/15/2003	Ian Bennett	MESS 2770	9076
7812 7	7590 02/17/2005	•	EXAMINER	
SMITH-HILL AND BEDELL			CHIESA, RICHARD L	
12670 N W BA SUITE 104	ARNES ROAD		ART UNIT	PAPER NUMBER
PORTLAND,	OR 97229		1724	
			DATE MAILED: 02/17/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			•	1				
		Application No.	Applicant(s)					
Office Action Summary		10/620,484	BENNETT, IAN					
		Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·				
		Richard L. Chiesa	1724					
Period f	The MAILING DATE of this communication or Reply	tion appears on the cover she	et with the correspondence addr	ess				
THE - External control	MORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA ensions of time may be available under the provisions of 3 r SIX (6) MONTHS from the mailing date of this communical experiod for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statuture to reply within the set or extended period for reply will reply received by the Office later than three months after need patent term adjustment. See 37 CFR 1.704(b).	ATION. BY CFR 1.136(a). In no event, however, recation. lays, a reply within the statutory minimum ory period will apply and will expire SIX (6, by statute, cause the application to become.	nay a reply be timely filed of thirty (30) days will be considered timely. ) MONTHS from the mailing date of this commendate of this commendate of this commendate.	munication.				
Status								
1)⊠	Responsive to communication(s) filed	on <u>15 July 2003</u> .						
2a) <u></u>								
3)[	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
·	Claim(s) <u>1-4</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.							
· · ·	☐ Claim(s) <u>1-4</u> is/are rejected.							
7)								
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)⊠	The specification is objected to by the E	Examiner.						
10)⊠	☑ The drawing(s) filed on <u>15 July 2003</u> is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the	e correction is required if the dra	wing(s) is objected to. See 37 CFR	. 1.121(d).				
11)	The oath or declaration is objected to b	y the Examiner. Note the atta	iched Office Action or form PTO	<b>-152</b> .				
<b>Priority</b>	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim for	cuments have been received cuments have been received the priority documents have l	in Application No  Deen received in this National St	age				
* (	See the attached detailed Office action f	, ,,,						
Attachmen	, ,		,					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO		view Summary (PTO-413) r No(s)/Mail Date					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PToer No(s)/Mail Date	,	e of Informal Patent Application (PTO-1	52)				

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**DETAILED ACTION** 

Response to Amendment

1. The preliminary amendment filed on July 15, 2003 has been entered.

**Priority** 

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers

have been placed of record in the file.

Drawings

3. Figure 1 should apparently be designated by a legend such as --Prior Art-- because only

that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with

37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the

application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header

(as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes

are not accepted by the examiner, the applicant will be notified and informed of any required

corrective action in the next Office action. The objection to the drawings will not be held in

abeyance.

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Specification

4. The abstract of the disclosure is objected to for the following reasons: (A) The reference

numerals are not enclosed within parentheses. (B) The expression "Figure 3" below the abstract

should be deleted. Correction is required. See MPEP § 608.01(b).

5. The disclosure is objected to for the following reasons: (A) It would appear that the

word "centripetal" used throughout the specification and abstract is incorrect and should perhaps

be changed to --centrifugal--. This is because the specification describes the impurities as being

deflected radially outwards which would indicate a centrifugal action instead of a centripetal

action which is radially inward. (B) The word --a-- should apparently be inserted between "by"

and "sharp" in the fifth line on page 4. Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention. The claims are ambiguous because it would appear that the word "centripetal"

(claim 1, line 5) should be changed to --centrifugal-- since a radially outward force is recited.

Claim Rejections - 35 USC § 102/103

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

thrown against the guide surface.

9. Claims 1-4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over either one of Hemsworth or Wisler. Each one of Hemsworth (note Figures 1-5, ref. num. 18, 19, 24, 74, col. 2, line 56 to col. 4, line 2, and col. 4, lines 62-68) and Wisler (note Figures 1-5, ref. num. 18, 19, 24, 40, col. 2, line 50 to col. 3, line 64, and col. 4, lines 50-56) shows a rotary machine with rotor blades, stator blades, and a radially stepped stator guide surface having grooves which may extend only partly around the stator circumference as claimed (35 USC 102b). It would appear that both Wisler and Hemsworth may not explicitly disclose that impurities in the gas stream are directed onto the guide surface. However, each one of Hemsworth (note col. 2, lines 15-32) and Wisler (col. 2, lines 15-28) discloses that the stepped stator guide surface separates the outer fluid flow from the inner fluid flow and consequently it is inherent or at least would have been readily obvious to one of ordinary skill in the art (35 USC 103a) that any impurities present in the gas stream will be

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10. Claims 1-4 are also rejected under 35 U.S.C. 103(a) as being unpatentable over either one

of Hemsworth or Wisler in view of Teshima et al. Each one of Hemsworth and Wisler, as

described above in paragraph 9, discloses a rotary machine substantially as claimed with the

possible exception of an explicit statement that impurities are thrown against the stator guide

surface. In any case, Teshima et al (note Figure 1) teach the well-known use of directing radially

outwards any dust or other impurities in a gas stream onto the stator guide surface 4 of a rotary

machine 1 for the purpose of ensuring commercial availability in dusty environments (note page

1, lines 5-26, and page 3, lines 6-34). Therefore, it would have been obvious to one having

ordinary skill in the art to direct radially outward any impurities in the gas stream onto the stator

guide surface of either one of the Hemsworth or Wisler rotary machines in order to enhance

operation in a dusty environment as taught by Teshima et al.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. These references have been cited as art of interest to show other rotary machines.

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Richard L. Chiesa whose telephone number is (571) 272-1154.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane S. Smith, can be reached at (571) 272-1166.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Technology Center 1700 receptionist whose telephone number is (571) 272-0987.

Facsimile correspondence must be transmitted through (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard L. Chiesa February 16, 2005

Richard L. Chiesa RICHARD L. CHIESA PRIMARY EXAMINER ART UNIT 1724

Feb. 16, 2005